

State of California
Department of Food and Agriculture
Division of Measurement Standards

Certificate Number: 5011-00
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California Type Evaluation Program
Certificate of Approval
for Weighing Devices

For:

Scale System Controller
Model: Syar Scale System

Submitted by:

Syar Industries, Inc.
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Standard Features and Options

The certified digital weight indicator provides motion detection and primary weight indications
Weighmaster ticket printing capability
Non-weigh mode for manual weight entries (identified as "Manual Wt")
Vehicle, customer and product identification
Multiple load-receiving element interface with scale identification

Minimum system requirements:

Computer display
Alphanumeric keyboard
Operating system: AS/400 E system – OS/400 V4 R3 MO
Hardware: AS/400
Program language: R.P.G.

This device was evaluated under the California Type Evaluation Program (CTEP) and was found to comply with the applicable technical requirements of California Code of Regulations for "Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: February 3, 2000

Barbara J. Bloch, Director

Syar Industries, Inc.
Scale System Controller
Model: Syar Scale System

Application: Controller system for use with certified vehicle scales. The scale must be interfaced to a certified indicating element.

Identification: The identification information is continuously displayed on the main menu screen.

Sealing: The controller requires no provision for sealing and is protected by a password that is retained by the manufacturer. Provisions for sealing metrological parameters are provided by the certified weighing and indicating elements.

Operation: Customer and vehicle information is manually entered at the check-in computer terminal. The inbound weighing/indicating element allows the operator to manually enter the gross (loaded) or tare (unloaded) weight information. This information is sent and stored in the Syar Industries database. The check-in computer terminal is not interfaced to the inbound weighing/indicating element. A complete transaction is possible when the vehicle is weighed on one of the outbound weighing/indicating elements interfaced to the scale system controller. The controller retrieves the vehicle information from the Syar Industries database and prints a gross, tare, and calculated net weight weighmaster ticket. The specific element used is identified on the weight ticket. Manual weights are identified as "Manual Wt" on the weight ticket.

Metric weights are included on the weight ticket as a requirement and for the exclusive use for the California Department of Transportation (CalTrans) and are not to be used as the basis of sale. The conversion factor is correct for individual weights, however, on occasion the summed weights may not be correct due to rounding beyond the second decimal.

Test Conditions: The system was evaluated interfaced to two Flex-Weigh (Model DWM-IV) digital weight indicators (Certificate of Approval Number 2776-86). The indicators were connected to two vehicle scales identified as scale "A" and scale "B." The emphasis of the evaluation was on the performance of the controller, interaction with the indicating element, and information on the printed ticket.

The results of the evaluation indicate the system complies with applicable requirements.

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2000 Edition.

Tested By: Gary Castro (CA)